

Name _____

Date _____

Period _____

Pre-Algebra
Chapter 1.3 Squares and Square Roots

Determine if each number is a perfect square.

1. 90 _____ 2. 225 _____ 3. 49 _____ 4. 28 _____
5. 289 _____ 6. 144 _____ 7. 240 _____ 8. 1000 _____

Find each square root.

9. $\sqrt{196}$ _____ 10. $\sqrt{4}$ _____ 11. $\sqrt{289}$ _____ 12. $\sqrt{16}$ _____
13. $\sqrt{361}$ _____ 14. $\sqrt{64}$ _____ 15. $\sqrt{1}$ _____ 16. $\sqrt{25}$ _____
17. $\sqrt{9}$ _____ 18. $\sqrt{484}$ _____ 19. $\sqrt{256}$ _____ 20. $\sqrt{400}$ _____
21. $\sqrt{324}$ _____ 22. $\sqrt{729}$ _____ 23. $\sqrt{36}$ _____ 24. $\sqrt{1296}$ _____
25. $\sqrt{1600}$ _____ 26. $\sqrt{49}$ _____ 27. $\sqrt{22,500}$ _____ 28. $\sqrt{3025}$ _____

Use a calculator to find each square root. Round the answer to two decimal places.

29. $\sqrt{10}$ _____ 30. $\sqrt{48}$ _____ 31. $\sqrt{28}$ _____ 32. $\sqrt{55}$ _____
33. $\sqrt{72}$ _____ 34. $\sqrt{37}$ _____ 35. $\sqrt{86}$ _____ 36. $\sqrt{98}$ _____
37. $\sqrt{946}$ _____ 38. $\sqrt{14}$ _____ 39. $\sqrt{62}$ _____ 40. $\sqrt{316}$ _____
41. $\sqrt{68}$ _____ 42. $\sqrt{146}$ _____ 43. $\sqrt{76}$ _____ 44. $\sqrt{521}$ _____
45. $\sqrt{813}$ _____ 46. $\sqrt{83}$ _____ 47. $\sqrt{23}$ _____ 48. $\sqrt{617}$ _____
49. $\sqrt{35}$ _____ 50. $\sqrt{123}$ _____ 51. $\sqrt{51}$ _____ 52. $\sqrt{463}$ _____
53. $\sqrt{583}$ _____ 54. $\sqrt{96}$ _____ 55. $\sqrt{203}$ _____ 56. $\sqrt{1200}$ _____
57. $\sqrt{278}$ _____ 58. $\sqrt{43}$ _____ 59. $\sqrt{401}$ _____ 60. $\sqrt{328}$ _____
61. $\sqrt{1365}$ _____ 62. $\sqrt{785}$ _____ 63. $\sqrt{635}$ _____ 64. $\sqrt{2424}$ _____

65. The largest pyramid in Egypt, built almost 5000 years ago, covers an area of about $63,300 \text{ yd}^2$. Find the length of each side of the square base. _____

66. Square floor tiles frequently have an area of 929 cm^2 . Find the length of a side of one of these tiles. _____